

Three Decades of Neuroscience on Glutamate Receptor Channels

John Edward Porter Neuroscience Research Center, NIH Campus

December 7, 2015

AGENDA

Monday, December 7, 2015

- 9:30 a.m. Welcome and Opening Remarks**
Kenton Swartz, Ph.D., Senior Investigator, Molecular Physiology and Biophysics Section, National Institutes of Neurological Disorders and Stroke, National Institutes of Health
- 9:35 a.m. "Who knew NMDA Receptors did this....."**
Gary Westbrook, M.D., Senior Scientist and Co-Director, Vollum Institute, Oregon Health and Science University
- 10:05 a.m. "Too many Potassium Channels"**
Bruce Bean, Ph.D., Robert Winthrop Professor of Neurobiology, Department of Neurobiology, Harvard Medical School
- 10:35 a.m. "Glutamate Receptor Pores"**
James Huettner, Ph.D., Professor, Department of Cell Biology and Physiology, Washington University in St. Louis
- 11:05 a.m. Break**
- 11:30 a.m. "NMDA Receptors: Presynaptic, Postsynaptic, Metabotropic?"**
Craig Jahr, Ph.D., Senior Scientist, Vollum Institute, Oregon Health and Science University
- 12:00 p.m. "The Functional Anatomy of the Ionotropic Glutamate Receptor Family"**
Derek Bowie, Ph.D., Professor, McGill University
- 12:30 p.m. "AMPA Receptor Domains and Synaptic Trafficking"**
Roger Nicoll, M.D., Professor, University of California, San Francisco
- 1:00 p.m. Lunch**
- 2:00 p.m. "Structure of ASIC1-Snake Toxin Complex Reveals Mechanism of Ion Selectivity in ENaC/DEG Channels"**
Isabelle Baconguis, Ph.D., Vollum Fellow, Vollum Institute, Oregon Health and Science University
- 2:30 p.m. "Glutamate Receptors: Lights, Camera, Action"**
Andrew J R Plested, Ph.D., Group Leader, Molecular Neuroscience and Biophysics, Leibniz-Institut Fur Molekulare Pharmakologie
- 3:00 p.m. "G Protein Activation of the GIRK Potassium Channel"**
Roderick MacKinnon, M.D., Professor, Laboratory of Molecular Neurobiology and Biophysics, Rockefeller University
- 3:30 p.m. Break**

- 4:00 p.m.** **"Structure, Function, and Biology of NMDA Receptors"**
Hiro Furukawa, Ph.D., Associate Professor, Cold Spring Harbor Laboratory
- 4:30 p.m.** **"Molecules, Mechanisms and Mark: Adventures in Atomic Exploration at Chemical Synapses"**
Eric Gouaux, Ph.D., Senior Scientist, Vollum Institute Oregon Health and Science University
- 5:00 p.m.** **"What's in a name? AMPA and Kainate Receptors in Flies and Ctenophores"**
*Mark Mayer, Ph.D., Senior Investigator, Laboratory of Cellular and Molecular
Neurophysiology, Eunice Kennedy Shriver National Institute of Child Health and Human
Development, National Institutes of Health*
- 5:30 p.m.** **Closing Remarks**
Story C. Landis, Ph.D., Scientist Emeritus, NINDS Intramural Program